

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	((simultaneous\$3 or parallel\$3) near4 (issu\$3 or push\$3 or deploy\$3 or send\$3 or us\$3) near4 (queue\$3 and decod\$3)).clm.	US-PGPUB; USPAT	OR	OFF	2007/03/19 09:25
L2	3	((simultaneous\$3 or parallel\$3) with (issu\$3 or push\$3 or deploy\$3 or send\$3 or us\$3) with (queue\$3 and decod\$3)).clm.	US-PGPUB; USPAT	OR	OFF	2007/03/19 09:25
L3	2	(decod\$3 near4 (instruction\$1 adj1 queu\$3) near4 parallel).clm.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/19 09:28
L4	10	(decod\$3 with (instruction\$1 adj1 queu\$3) with parallel).clm.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/19 09:28
L5	2	(decod\$3 near4 (instruction\$1 adj1 queu\$3) near4 parallel).clm.	US-PGPUB; USPAT	OR	OFF	2007/03/19 09:28
L6	10	(decod\$3 with (instruction\$1 adj1 queu\$3) with parallel).clm.	US-PGPUB; USPAT	OR	OFF	2007/03/19 09:29
L7	18	((load\$3 or fetch\$3) near4 instruction\$1 near4 decoder near4 (instruction adj1 queue))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/19 09:32
L8	26	((load\$3 or fetch\$3) near4 instruction\$1) with (decoder near4 (instruction adj1 queue)))	US-PGPUB; USPAT	OR	OFF	2007/03/19 09:34
L9	1	((load\$3 or fetch\$3) near4 instruction\$1) with (decoder near4 (instruction adj1 queue))).clm.	US-PGPUB; USPAT	OR	OFF	2007/03/19 09:34
L10	26	((load\$3 or fetch\$3) near4 instruction\$1) with (decoder near4 (instruction adj1 queue)))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/19 09:34
L11	122	((load\$3 or fetch\$3) with instruction\$1) with (decoder with (instruction with queue)))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/19 09:34
L12	9	((load\$3 or fetch\$3) with instruction\$1) with (decoder with (instruction with queue)))	EPO; JPO; IBM_TDB	OR	OFF	2007/03/19 09:34
L13	13	((load\$3 or fetch\$3) with instruction\$1) with (decoder with (instruction with queue))).clm.	US-PGPUB; USPAT	OR	OFF	2007/03/19 09:35

EAST Search History

S1	320	(712/219).CCLS.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/09/28 14:16
S2	407	(712/234).CCLS.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/09/28 14:16
S3	212	(712/235).CCLS.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/09/28 14:23
S4	6	decod\$3 near4 (instruction\$1 adj1 queu\$3) near4 parallel	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/19 09:26
S5	6	decod\$3 near4 (instruction\$1 adj1 queu\$3) near4 multiplex\$3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/09/28 14:27
S6	14	(decod\$3 near4 (instruction\$1 adj1 queu\$3)) with multiplex\$3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/09/28 14:43
S7	13	(decod\$3 near4 (instruction\$1 adj1 queu\$3)) with parallel	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/09/28 14:42
S8	6	((("5165025") or ("5878254") or ("5958047") or ("6065115") or ("6269439") or ("63816783") or ("6523110")).PN.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/09/28 14:40
S9	7	((("5165025") or ("5878254") or ("5958047") or ("6065115") or ("6269439") or ("6381678") or ("6523110")).PN.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/09/28 14:40
S10	6	(decod\$3 with (instruction\$1 adj1 queu\$3)) near4 parallel	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/09/28 14:42
S11	0	(decod\$3 with (instruction\$1 adj1 queu\$3)) near4 multiplex\$3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/09/28 14:43
S12	62	(decod\$3 with (instruction\$1 adj1 queu\$3)) with instruction\$1 with load\$3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/09/28 14:43

EAST Search History

S13	25	(decod\$3 near4 (instruction\$1 adj1 queu\$3)) with instruction\$1 with load\$3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/09/28 15:43
S14	20	branch\$3 near4 decod\$3 near4 (bypass\$3 or skip\$4)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/09/28 15:50
S15	15	(branch\$3 near4 decod\$3 near4 stag\$3) with (instruction near4 queu\$4)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/09/28 16:00
S16	10	(pre?decod\$3 near4 stag\$3) with (instruction near4 queu\$4)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/09/28 16:01
S17	335	(711/138).CCLS.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/09/28 16:26
S18	91	(cach\$3 near4 fill\$3) near4 (bypass\$3 or skip\$4 or forward\$3)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/09/28 16:33
S19	13	(cach\$3 near4 fill\$3) near4 (instruction\$1 near4 forward\$3)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2006/09/28 16:33
S20	217	(712/235).CCLS.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/10 21:03
S21	413	(712/234).CCLS.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/10 21:03
S22	333	(712/219).CCLS.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/10 21:03
S23	343	(711/138).CCLS.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/10 21:04
S24	1195	(empty or initializ\$5 or start\$3 or begin\$5) near4 (queue\$3 or buffer\$3) near4 decod\$4	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/10 21:07

EAST Search History

S25	12	(empty or initializ\$5 or start\$3 or begin\$5) near4 (queue\$3 or buffer\$3) near4 decod\$4 near4 fetch\$3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/10 21:12
S26	0	(invalid adj1 data) near4 (queue\$3 or buffer\$3) near4 decod\$4 near4 fetch\$3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/10 21:12
S27	3	(instruction\$1 adj1 queue\$3) near4 (decod\$3) near4 (simultaneous\$3 or parallel\$3) near4 (fetch\$3 or insert\$3 or add\$3 or push\$3 or enqueue\$5)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/10 21:15
S28	4	((instruction\$1 adj1 queue\$3) near4 (decod\$3)) with ((simultaneous\$3 or parallel\$3) near4 (fetch\$3 or insert\$3 or add\$3 or push\$3 or enqueue\$5))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/10 21:17
S29	6	((instruction\$1 adj1 queue\$3) near4 (decod\$3)) same ((simultaneous\$3 or parallel\$3) near4 (fetch\$3 or insert\$3 or add\$3 or push\$3 or enqueue\$5))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/10 21:20
S30	15	((instruction\$1 adj1 queue\$3) near4 (decod\$3)) same ((simultaneous\$3 or parallel\$3) with (fetch\$3 or insert\$3 or add\$3 or push\$3 or enqueue\$5))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/10 21:28
S31	11	mispredict\$5 with (decod\$3 with (instruction\$1 near4 queue\$3))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/10 21:31
S32	44	mispredict\$5 same (decod\$3 with (instruction\$1 near4 queue\$3))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/10 21:31
S33	2	(simultaneous\$3 or parallel\$3) near4 load\$3 near4 (queue\$3 and decod\$3)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/12 14:41
S34	1	(simultaneous\$3 or parallel\$3) near4 insert\$3 near4 (queue\$3 and decod\$3)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/12 14:42
S35	4	(simultaneous\$3 or parallel\$3) near4 (issu\$3 or push\$3 or deploy\$3 or send\$3 or us\$3) near4 (queue\$3 and decod\$3)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/19 09:23

EAST Search History

S36	15	(decod\$3 near4 (instruction\$1 adj1 queu\$3)) with multiplex\$3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/15 14:50
S37	3	(trac\$3 near4 buffer\$3) near4 (decod\$3 near4 (multiplex\$4 or select\$3))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/15 14:51
S38	47	(trac\$3 near4 buffer\$3) with (decod\$3 near4 (multiplex\$4 or select\$3))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/15 14:58
S39	7	(trace near4 buffer\$3) same (decod\$3 near4 (multiplex\$4 or select\$3))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/15 15:01
S40	0	(trace near4 buffer\$3) near4 (decod\$3) near4 (parallel or simultaneous\$2)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/15 15:01
S41	3	(trace near4 buffer\$3) with (decod\$3) with (parallel or simultaneous\$2)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/15 15:03
S42	38	(trace) with (decod\$3) with (parallel or simultaneous\$2)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/15 15:03
S43	10	(trace) with (decod\$3) with (parallel or simultaneous\$2) with (load\$3 or execut\$3 or operat\$3 or stor\$3)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/15 15:07
S44	286	(trace) with (decod\$3) with (instruction\$1)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/15 15:07
S45	129	(trace) with (decod\$3) with (instruction\$1) with cach\$3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/15 15:07
S46	95	(trace) with (decod\$3) with (instruction\$1 near4 cach\$3)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/15 15:08
S47	93	(trace near4 (buffer\$1 or memor\$3 or cach\$3)) with (decod\$3) with (instruction\$1 near4 cach\$3)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2007/03/15 15:08

Lowercase "or" was ignored. Try "OR" to search for either of two terms. [\[details\]](#)

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[J Lo](#)

[D Tullsen](#)

[S Eggers](#)

[J Emer](#)

[H Levy](#)

Exploiting choice: instruction fetch and issue on an implementable simultaneous multithreading ... - group of 51 »
DM Tullsen, SJ Eggers, JS Emer, HM Levy, JL Lo, RL ... - Proceedings of the 23rd annual international symposium on ..., 1996 - portal.acm.org

... of a wide-issue processor without simultaneous multithreading. ... by the peak fetch and decode bandwidths, which ... our architecture more than a parallel program by ...
Cited by 484 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

An Elementary Processor Architecture with Simultaneous Instruction Issuing from Multiple Threads - group of 5 »
H Hirata, K Kimura, S Nagamine, Y Mochizuki, A ... - Computer Architecture, 1992. Proceedings., The 19th Annual ..., 1992 - ieeexplore.ieee.org

... Elementary Processor Architecture with Simultaneous Instruction Issuing ... chitectural interest upon parallel multithreading and ... queue unit and decode unit pairs ...
Cited by 138 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Converting Thread-Level Parallelism to Instruction-Level Parallelism via Simultaneous Multithreading - group of 28 »
JL LO, SJ EGGERS, JS EMER, HM LEVY, RL STAMM, DM ... - ACM Transactions on Computer Systems, 1997 - portal.acm.org
... Following instruction fetch and decode, register renaming is performed ... shallow is from the Applied Parallel Research HPF ... Simultaneous Multithreading * 331 ...
Cited by 177 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Initial observations of the simultaneous multithreading Pentium 4 processor - group of 12 »
N Tuck, DM Tullsen - Parallel Architectures and Compilation Techniques, 2003. ... - ieeexplore.ieee.org
... trace cache and main instruction decoder are handled in ... when two threads ran simultaneous copies of ... 12th International Conference on Parallel Architectures and ...
Cited by 39 - [Related Articles](#) - [Web Search](#)

A MULTITHREADED ARCHITECTURE APPROACH TO PARALLEL DSPs FOR HIGH PERFORMANCE IMAGE PROCESSING ...

JP Wittenburg, P Pirsch, G Meyer - ieeexplore.ieee.org
... an architec- ture's resources (simultaneous multithreading ... DSP specific extensions
Though data parallel loops can ... the name, the following Decode & Instruction ...
Cited by 7 - [Related Articles](#) - [Web Search](#)

Speculative instruction queue and method therefor particularly suitable for variable byte-length ... - group of 3 »
DB Witt... - US Patent 5,826,053, 1998 - Google Patents
... [it] Patent Number: [45] Date of Patent: [54] SPECULATIVE INSTRUCTION QUEUE AND METHOD THEREFOR PARTICULARLY SUITABLE FOR VARIABLE BYTE-LENGTH INSTRUCTIONS ...
Cited by 13 - [Related Articles](#) - [Web Search](#)

Pipeline control for a single cycle VLSI implementation of acomplex instruction set computer
DR Stiles, HL McFarland, NG Microsyst, CA San Jose - COMPCON Spring'89. Thirty-Fourth IEEE Computer Society ... - ieeexplore.ieee.org
... prefetch of up to three simultaneous instruction streams. ... Instruction decode generally proceeds at a single cycle rate. ... allows IEU to perform parallel and/or ...
Cited by 12 - [Related Articles](#) - [Web Search](#)

Method and apparatus for store-into-instruction-stream detection and maintaining branch prediction ... - group of 6 »
JG Favor, K Van Dyke, DR Stiles - US Patent 5,226,130, 1993 - Google Patents
... 'In parallel with the fetching and/or decoding of a branch instruction, the instruction is also looked up in the branch prediction cache. ...
Cited by 234 - [Related Articles](#) - [Web Search](#)

Parallel processing unit which processes branch instructions without decreased performance when a ... - group of 3 »
H Ando - US Patent 5,809,294, 1998 - Google Patents
... [il] Patent Number: [45] Date of Patent: [54] PARALLEL PROCESSING UNIT WHICH PROCESSES BRANCH INSTRUCTIONS WITHOUT DECREASED PERFORMANCE WHEN A BRANCH IS TAKEN ...
Cited by 15 - [Related Articles](#) - [Web Search](#)

Improving CISC instruction decoding performance using a fill unit - group of 6 »
M Smotherman, M Franklin - Proceedings of the 28th annual international symposium on ..., 1995 - portal.acm.org
... only the first instruction in the instruction queue can produce ... Figure 4: Simultaneous, triple-instruction-decode microoperations using P6-like decoder, ...
Cited by 28 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

(parallel or simultaneous) + decode

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All Results

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[J Lo](#)

[S Eggers](#)

[J Emer](#)

[H Levy](#)

... cache memory line as either branch target entry or prefetch instruction queue based upon instruction ... - group of 5 »

KS Van Dyke, DR Stiles, JG Favor... - US Patent 5,748,932, 1998 - Google Patents

... By doing this in **parallel** with the ... of the ETC to serve as instruction queues, into an **instruction queue** from which the ... **decoder's** instruction register is loaded. ...

Cited by 48 - [Related Articles](#) - [Web Search](#)

The approach to multiple instruction execution in the GMICRO/400 processor

T Yoshida, M Matsuo, S Iwata - TRON Project Symposium, 1991. Proceedings., Eighth, 1991 - [ieeexplore.ieee.org](#)

... branch instruction, and the other **instruction queue** holds the ... The superscalar instruction **decode** unit decodes two instructions in **parallel** if the two ...

Cited by 27 - [Related Articles](#) - [Web Search](#)

Apparatus for concurrent multiple instruction decode in variable length instruction set computer - group of 2 »

CM Chuang - US Patent 5,371,864, 1994 - Google Patents

... group of two or more instructions in **parallel**, the start- ... **Instruction queue** 56 may, for exam- ... **decoder** for the instruction set of the Intel 80386 (trade-

Cited by 48 - [Related Articles](#) - [Web Search](#)

Exploiting choice: instruction fetch and issue on an implementable simultaneous multithreading ... - group of 51 »

DM Tullsen, SJ Eggers, JS Emer, HM Levy, JL Lo, RL ... - Proceedings of the 23rd annual international symposium on ..., 1996 - [portal.acm.org](#)

... bounded by the peak fetch and **decode** bandwidths, which ... assume a 32-entry integer **instruction queue** (which han- ... our architecture more than a **parallel** program by ...

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Microprocessor having precoder unit and main decoder unit operating in pipeline processing manner - group of 2 »

N Suzuki - US Patent 5,233,696, 1993 - Google Patents

... contents of BFF 140 are supplied to a main **decoder** unit (MDU ... MMU 170 and EXU ISO, operate in **parallel** in a ... INSQ3) 121-1 to 121-4 of an **instruction queue** 121, each ...

Cited by 51 - [Related Articles](#) - [Web Search](#)

... performance superscalar microprocessor including a speculative instruction queue for byte-aligning ... - group of 3 »

DB Witt, WM Johnson... - US Patent 5,751,981, 1998 - Google Patents

... 29m 1993 entitled "Speculative **Instruction Queue** and Method Therefor Particularly Suitable ... 29, 1993 entitled "Superscalar Instruction **Decoder**"—David B. Witt ...

Cited by 23 - [Related Articles](#) - [Web Search](#)

Data processing system with instruction queue having tags indicating outstanding data status - group of 2 »

TN Hicks, MH NguyenPhu - US Patent 5,150,470, 1992 - Google Patents

... 35 embodiment includes the capability to **decode** multiple many ... instructions in **parallel**.

The load instructions are stored in an **instruction queue** (the memory to ...

Cited by 17 - [Related Articles](#) - [Web Search](#)

Method for refilling instruction queue by reading predetermined number of instruction words ... - group of 2 »

US Patent 5,317,701, 1994 - [freepatentsonline.com](#)

... Wharton, "Parallel 486 Pipelines Produce Peak Processor Performance ... word set from the **instruction queue** 50 ... third instruction cycle, prefetch **decoder** 56 advances ...

Cited by 26 - [Related Articles](#) - [Cached](#) - [Web Search](#)

... data processing system with decoding and execution of prefetched instructions in parallel - group of 3 »

H Yamahata, Y Sato - US Patent 4,847,748, 1989 - Google Patents

... When the queue is the decoded **instruction queue** memory advances, the ... The in- struction

decode unit can execute the ... decod- ing and execution in **parallel**, and a ...
[Cited by 12](#) - [Related Articles](#) - [Web Search](#)

Method and apparatus for store-into-instruction-stream detection and maintaining branch prediction ...
- group of 6 »

JG Favor, K Van Dyke, DR Stiles - US Patent 5,226,130, 1993 - Google Patents
... 'In **parallel** with the fetching and/or decoding of a branch instruction, the
instruction is also looked up in the branch prediction cache. ...

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parallel + decoder + "instruction qu

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Exploiting choice: instruction fetch and issue on an implementable simultaneous multithreading ... - group of 51 »

DM Tullsen, SJ Eggers, JS Emer, HM Levy, JL Lo, RL ... - Proceedings of the 23rd annual international symposium on ..., 1996 - portal.acm.org

... than suffer this penalty, we schedule load-dependent instructions ... is bounded by the peak fetch and decode ... assume a 32-entry integer instruction queue (which han ...

Cited by 484 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

POWER4 system microarchitecture - group of 13 »

JM Tendler, JS Dodson, JS Fields Jr, H Le, B ... - IBM Journal of Research and Development, 2002 - research.ibm.com

... GD cycles are the cycles during which instruction decode and group ... a result of a processor L1 data-cache load request or instruction-fetch request that ...

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An Elementary Processor Architecture with Simultaneous Instruction Issuing from Multiple Threads - group of 5 »

H Hirata, K Kimura, S Nagamine, Y Mochizuki, A ... - Computer Architecture, 1992. Proceedings., The 19th Annual ..., 1992 - ieeexplore.ieee.org

... In such a case, another cache and fetch unit would be needed. ... The instruction set is based on a RISC type, and a load/store architecture is assumed. ...

Cited by 138 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

The case for a single-chip multiprocessor - group of 37 »

K Olukotun, BA Nayfeh, L Hammond, K Wilson, K ... - ACM SIGPLAN Notices, 1996 - portal.acm.org

... eg integer, floating point, load/store ... Three factors constrain instruction fetch: mispredicted branches, instruction mis ... align a packet of instructions for the ...

Cited by 303 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

A dynamic multithreading processor - group of 25 »

H Akkary, MA Driscoll - Microarchitecture, 1998. MICRO-31. Proceedings. 31st Annual ... - ieeexplore.ieee.org

... a misprediction is detected from either source, instruction fetch is switched ...

Instructions Mappings & Operands to Rename Unit From Load Queue ... Instruction Queue ...

Cited by 159 - [Related Articles](#) - [Web Search](#) - [Library Search](#) - [BL Direct](#)

Data processing system with instruction queue having tags indicating outstanding data status - group of 2 »

TN Hicks, MH NguyenPhu - US Patent 5,150,470, 1992 - Google Patents

... PRE-FETCH BUFFER CONTROL ... loaded as a result of a load instruction, the float- ing point ... instruction decode logic interconnected to the instruction queue in the ...

Cited by 17 - [Related Articles](#) - [Web Search](#)

... performance superscalar microprocessor including a speculative instruction queue for byte-aligning ... - group of 3 »

DB Witt, WM Johnson ... - US Patent 5,751,981, 1998 - Google Patents

... also share a common reorder buffer, register file, branch prediction unit and load/

store unit ... INSTRUCTION DECODER ... FETCH PC, MISPREDICT STATUS SPEC.BRANCH BUS ...

Cited by 23 - [Related Articles](#) - [Web Search](#)

Paired instruction processor precise exception handling mechanism - group of 2 »

RL Jardine, SJ Lynch, PR Manela, RW Horst - US Patent 5,075,844, 1991 - Google Patents

... O * OA, LOAD ClF ... 1, a fetch unit (FU) 10 is coupled to an in -struction cache (1C)

12 ... and ROF) 18 and 20 are connected in series to form an instruction queue 21 ...

Cited by 36 - [Related Articles](#) - [Web Search](#)

Pre-decoded instruction cache and method therefor particularly suitable for variable byte-length ... - group of 5 »

DB Witt, MD Goddard ... - US Patent 5,689,672, 1997 - Google Patents

... to four instructions into a sequence of one or more internal RISC-like operations

(ROPs), and the parallel dispatch of up to 4 ROPs by an instruction decoder. ...

Cited by 57 - [Related Articles](#) - [Web Search](#)

Multiple instruction issue in the NonStop cyclone processor - group of 3 »

RW Horst, RL Harris, RL Jardine - ACM SIGARCH Computer Architecture News, 1990 - portal.acm.org

... to register move, LOAD1 = load indirect. 218 ... Fetch instructions INSTRUCTION and predict

ADDRESS branches REGISTERS PED INSTRUCTION CACHE S = Second F = First ...

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(load or fetch) + instruction + deco

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